Andrea Ciceri

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EXPERIENCE

MLABS | DevOps engineer and Nix developer
May 2022 - | Remote

- Designed and maintained the infrastructure (as a code) using **NixOS** both for internal needs and for customers.
- Provisioned the servers and designed the deployment for the multiple clients, including the **CI/CD pipelines**. Mainly used **Terrraform** and **NixOS** on **Hetzner**, **AWS** and **DigitalOcean**.
- Created and worked on different internal tools touching a variety of technologies including **Haskell**, **Cardano, Purescript** and **Nix**.
- Worked on the **Nix interpreter** (**C++**) and on **Hydra** (a Nix CI tool written in **C++**) as part of a Catalyst proposal.
- Leaded the development of two Nix-related open source tools for **Cardano** (cardano.nix and spo-anywhere).
- Ran nodes and pools for different chains including **Cardano**, **Apex Fusion** and **Mina**.

BEATDATA | Full-stack engineer
Mar 2020 – May 2022 | Milan

- Worked both as **frontend and backend developer** on a wide variety of different projects across different technologies like **React**, **Typescript**, **.NET**, **Django** and **Python**, always with a focus on the **DevOps aspects**.
- Designed and implemented a framework in Python allowing scientists to write and upload numerical algorithms and provisioning the results to external services asynchronously.
- Designed and implemented the **Solidity** smart contracts (and a Typescript SDK to interact with them) for an NFT exchange.
- Studied in depth the **Uniswap** V2 protocol and forked it in order to create a new DEX.

OPEN SOURCE PROJECTS

- **cardano.nix**: NixOS modules to make Cardano-related deployments easier - github.com/mlabs-haskell/cardano.nix
- **spo-anywhere**: Tool to deploy Cardano SPO nodes literally everywhere - github.com/mlabs-haskell/spo-anywhere
- **cardanow**: Automatically create snapshots for different Cardano softwares - github.com/mlabs-haskell/cardanow
- **agenix-shell**: Share secrets using Nix development shells - github.com/aciceri/agenix-shell
- **rock5b-nixos**: Make NixOS boot on the Rock5B SBC - github.com/aciceri/rock5b-nixos
- **codroipo**: Custom ergonomic split mechanical keyboard - github.com/aciceri/codroipo
- **Local Nix meetup in Milan**: Recurrent event - milano.nix.pizza
- **cooper**: Cooper algorithm implemented in C for the university - github.com/aciceri/cooper
- **Materia**: Dex and DAO on Ethereum - materiadex.com
- **BrainFuck compiler in Python** - git.io/JYa2x

CONFERENCES AND HACKATHONS

- ETHGlobal Lisbon 2023 - won first prize with Cartesi, the project involved running Nix builds in a decentralized manne on an Ethereum L2
- ETHGlobal Paris 2023 - won second prize with Cartesi
- ETHGlobal London 2024 - won third prize with Filecoin
- ETHGlobal Prague 2025 won 1inch prize for integrating Fusion+ with Cardano
- ETHRome 2023 - won various prizes for an LLM-based search engine
- ETHRome 2024 - won various prizes for a dapp using zero-knowledge proofs based app (Aztec network and Noir, a language for SNARK proofs)
- Nix camp in 2023 - one week in Liverpool hacking on Nix
- Ocean sprint 2022 - one week in Lanzarote hacking on Nix
- Thaigersprint 2025 - one week in Chiang Mai hacking on Nix

SKILLS

PROGRAMMING
- C • Python • JavaScript
- TypeScript • Haskell
- Purescript • Nix • Solidity
- Scheme • Emacs Lisp

TECHNOLOGY
- Git • Linux • Emacs
- NixOS • Docker
- Kubernetes • IPFS
- Cardano • Ethereum
- Org mode • GitHub
- GitLab • QEMU

INTERESTS
- Automation
- Functional programming
- Electronics • 3D printing
- Text editors • OpenScad
- Freecad • Kicad • Blender
- Blockchain • DeFi
- Category theory
- Language theory
- Ham radio • DIY • Running
- Cycling • Music • Cinema
- Sci-Fi • Fiction books

CONTACTS

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